



Notice Inviting e-Tender

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Supply and Commissioning of Medical equipment for the District Integrated Public Health Laboratory
(Discipline-Biochemistry)
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-271/2023

Dated-24.05.2023

AMENDMENT-III

Revised Technical Specification

Item No.-1

Fully automated biochemistry analyser with ISE module

1. Analytical System: Fully automated (open system), random access chemistry system with STAT capability
2. Analytical Principle: Spectrophotometry and potentiometry
3. Analytical Types: Endpoint, rate, fixed point and indirect ISE
4. Analytical methods: Colorimetry, turbidimetry, indirect ISE
5. Simultaneously processed Analytes: more than 200 photometric tests + 3 ISE, 120 pre-programmed onboard tests
6. Through put : 600 or more photometric tests per hour
7. ISE, through put: 200 or more samples per hour
8. Sample through serum, plasma, urine, other
9. Sample fiddler racks/carousel with minimum 40 sample each (barcodes on primary tubes and on racks): capacity of 80 samples; continuous loading
10. Sample tubes: Primary and secondary tubes; diameter from 11.5 to 16 mm; height from 55 to 102 mm, nestled micro sample cups.
11. STAT sample positions 20 or more. Easy to operate interrupts between tests auto repeat run capability.
12. Sample volume: 1-25 µl or more in 0.1 µl steps (1-25 µl for repeats)

13. Reagent capacity: Minimum of 50 positions for R1+R2, detergent position. Should hold minimum 5 to 50 ml or more volume capacity bottles.
14. Reagent storage: Refrigerated (4°C-12°C)
15. Reagent volume: R1:10-250µl; R2: 10-250µl; (in 1µl increment)
16. Total reaction volume: 90-350 µl or wider.
17. Reaction cuvette: Permanent glass cuvettes
18. Reaction time: Upto 8 minutes, 37.5 seconds
19. Reaction incubation: 37°C, dry bath
20. Photometry System: Direct assay through the reaction cuvette (0-3.0 OD) mono and bichromatic measurements possible
21. Wavelength: 12 different wavelengths between 340 -750 nm or wider
22. Should have facility for auto calibration
23. Rerun:
24. Auto rerun and manual rerun available
25. Automatic sample increase, decrease or normal repeat
26. Preferably Reflex testing facility (optional)
27. Should have facility for sample pre-dilution
28. Test requisition: Individual and profile test requisition via online, mouse, function keys or touch screen.
29. Sample Integrity: Lipaemia, Haemolysis and icterus analysis and probe crash protection
30. The system should be supplied with a water treatment plant including iron removal filter with a capacity to run the machine round the clock.
31. Should have facility for uni and bidirectional communication
32. Data storage: Minimum 100,000 nos. of samples and 200,000 nos. of tests
33. Should have Levy – Jennings or X (bar) M QC facility
34. External printer compatible with the instrument should be provided
35. Minimum battery backup of 30 minutes (Online UPS 1 KVA).
36. Safety Certification: CE IVD/ US FDA/ BIS

Item No.-2

CLIA Based Automated immunoassay Analyser

Product Specifications

- Fully Automated
 - Up to 120 tests per hour
 - Sample volume per test: 10 µL.
 - Serum, plasma, urine, whole blood (assay-dependent) type of samples handling system.
 - Chemiluminescence / Electro Chemiluminescence based
 - LCD of display
 - 2-point re-calibration facility, Switched mode power supply,
- Automated instrument calibration, User friendly and intelligent software
- Touchscreen user interface or Data entry
 - HIS/LIS Interface available
 - External USB storage available
 - Minimum battery backup of 30 minutes (Online UPS 1 KVA).

- External printer compatible with the instrument should be provided

Warranty

- 2 years

Power requirements

- 240 V

Environment and Safety

- Complies with international environmental, health, and safety

Safety Certification: CE IVD/ US FDA/ BIS

Item No.-3

Refrigerator 400 liters

1. Frost free.
2. Capacity: 400 Liters or more.
3. Temperature Range : 2°C to 8°C.
4. Deep freezing temperature
5. Temperature Accuracy: $\pm 0.5^{\circ}\text{C}$ Controller - PID Controller.
6. Construction - Exterior: Powder Coated Mild Steel; Interior: Stainless Steel.
7. Door - Standard hinged Double doors with double gasket.
8. Insulation - PUF insulation.
9. Trays - Perforated trays made of stainless steel Refrigeration - CFC Free compressor.
10. Air Circulation - Forced air circulation.
11. Should be supplied with digital thermometer for upper and lower chamber separately.
12. Alarms - Audio / Visual alarm for High / low temperature
13. Power - 220 / 230 Volts 50 Hz
14. Certification: CE / EC / UK Cert / US FDA / BIS

Item No.-4

Micropipette 0.1- 2 μ l

Specification	Specification Name	Bid Requirement (Allowed Values)
Features and Sizes	Type of Micropipette	Manual single channel variable volume
	Locking Mechanism	No
	Digital Volume Indicator	With
	Volume Range of Variable Volume Single Channel pipette	0.1- 2 μ l
Additional Specification Parameters - manual single channel air displacement pipettors or micropipette		
Specification Parameter Name		Bid Requirement (Allowed Values)
Certification		CE-IVD / US FDA / BIS
Sample rack		3 nos. (each contained 20 test tubes)
Warranty		2 years

Item No.-5

Micropipette 1- 10µl

Specification	Specification Name	Bid Requirement (Allowed Values)
Features and Sizes	Type of Micropipette	Manual single channel variable volume
	Locking Mechanism	No
	Digital Volume Indicator	With
	Volume Range of Variable Volume Single Channel pipette	1- 10µl
Additional Specification Parameters - manual single channel air displacement pipetters or micropipette		
Specification Parameter Name		Bid Requirement (Allowed Values)
Certification		CE-IVD / US FDA / BIS
Sample rack		3 nos. (each contained 20 test tubes)
Warranty		2 years

Item No.-6

Multi-Channel pipette (Octapipette) 200-1000µl

Specification	Specification Name	Bid Requirement (Allowed Values)
Features and Sizes	Type of Micropipette	Multi-Channel (Octapipette) variable volume
	Locking Mechanism	No
	Digital Volume Indicator	With
	Volume Range of Variable Volume Single Channel pipette	200-1000µl
Additional Specification Parameters - manual single channel air displacement pipetters or micropipette		
Specification Parameter Name		Bid Requirement (Allowed Values)
Certification		CE-IVD / US FDA / BIS
Sample rack		3 nos. (each contained 20 test tubes)
Warranty		2 years